(19) World Intellectual Property Organization International Bureau



(43) International Publication Date 4 November 2004 (04.11.2004)

PCT

(10) International Publication Number WO 2004/095876 A3

(51) International Patent Classification⁷:

H04R 1/10

(21) International Application Number:

PCT/SE2004/000632

(22) International Filing Date:

23 April 2004 (23.04.2004)

(25) Filing Language:

Swedish

(26) Publication Language:

English

(30) Priority Data: 0301199-6

24 April 2003 (24.04.2003) SE

(71) Applicant and

(72) Inventor: DANIELSSON, Niklas [SE/SE]; Johan Enbergsväg 11, S-171 62 Solna (SE).

(74) Agents: BERGLUNG, Stefan et al.; Bjerkéns Patentbyrå KB, Östermalmsg. 58, S-114 50 Stockholm (SE).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

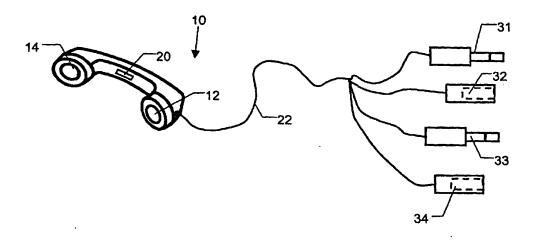
Published:

with international search report

(88) Date of publication of the international search report: 6 January 2005

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: A MICROPHONE/EAR-HEADPHONE UNIT AND A COMPUTER SYSTEM



(57) Abstract: The invention concerns a unit (10) with a microphone part (12) and an ear-headphone part (14). The ear-headphone part (14) is intended to be arranged at or held against the ear of a user while the microphone part (12) is intended to be arranged near the user's mouth. The unit (10) can be connected to a computer (16) in order to enable conversational communication via the computer (16). The computer (16) may also have a built-in loudspeaker or can be connected to a loudspeaker which can be a desk or floor loudspeaker (18). The unit (10) has a switching member (20). In a first switching state, the unit (10) is connected for use for conversational communication. In a second switching state, at least said ear-headphone part (14) is not active while said desk or floor loudspeaker (18) or built-in loudspeaker is active. The invention also concerns a computer system comprising a unit (10) according to the above.

INTERNATIONAL SEARCH REPORT

In....ional application No.

PCT/SE 2004/000632

A. CLASSIFICATION OF SUBJECT MATTER

IPC7: H04R 1/10
According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC7: H04R

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

SE,DK,FI,NO classes as above

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

EPO-INTERNAL, WPI DATA

Category*	Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No.					
х	WO 0207476 A2 (SYVOX CORPORATION), 24 January 2002 (24.01.2002), abstract, paragraph (0003), (0048)-(0049)	1-10				
						
X	DE 29604592 U1 (SIEMENS AG), 14 August 1996 (14.08.1996), whole document	1-10				
		·				
A	US 6453027 B1 (KANG ET AL), 17 Sept 2002 (17.09.2002)	1-10				
						
A	SE 9901637 A (TELIA AB), 7 November 2002 (07.11.2002)	1-10				
!						

	·						
* "A"	Special categories of cited documents: document defining the general state of the art which is not considered to be of particular relevance	"T"	later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention				
"E" "L"	earlier application or patent but published on or after the international filing date	"X" document of particular relevance: the claimed invention cannot be considered novel or cannot be considered to involve an inventive					
"O"	document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"Y" document of particular relevance: the claimed invention cannot be considered to involve an inventive step when the document is					
"P"	document referring to an oral disclosure, use, exhibition or other. means document published prior to the international filing date but later than	" & <u>"</u>	combined with one or more other such documents, such combination being obvious to a person skilled in the art				
Date	the priority date claimed e of the actual completion of the international search		of mailing of the international search report				
8	July 2004		1 3 -07- 2004				
Name and mailing address of the ISA/		Authorized officer .					
Swedish Patent Office Box 5055, S-102 42 STOCKHOLM			Henrik Andersson / JA A				
	simile No. +46 8 666 02 86	Telephone No. +46 8 782 25 00					

X See patent family annex.

Y Further documents are listed in the continuation of Box C.

INTERNATIONAL SEARCH REPORT

International application No.
PCT/SE 2004/000632

Category*	Citat	ion of docu	Relevant to claim No								
A	WO	0048382 (17.08	A1 . 200	(PHILOS 0)	co.,	Lπ.),	17	August	2000	•	1-10
	-										
										-	
							-				
;											
								,			
ı											
								· .	•		
		-									

INTERNATIONAL SEARCH REPORT

International application No. PCT/SE 2004/000632

WO	0207476	A2	24/01/2002	AU 7690401 A 30/01/2002 US 2002131616 A 19/09/2002
DE	29604592	U1	14/08/1996	NONE
US	6453027	B1	17/09/2002	BR 0102691 A 06/11/2001 CN 1315685 A 03/10/2001 DE 10114174 A 27/09/2001 FR 2806811 A,B 28/09/2001 GB 0103209 D 00/00/0000 GB 2360490 A,B 26/09/2001 JP 2001306224 A 02/11/2001 KR 199167 Y 02/10/2000 KR 2001090265 A 18/10/2001 SG 94773 A 18/03/2003 TW 501052 B 00/00/0000
SE	9901637	A	07/11/2002	NONE
WO	0048382	A1	17/08/2000	AU 2464800 A 29/08/2000 KR 2000066939 A 15/11/2000 KR 2000066940 A 15/11/2000